

Title (en)

CHROMIUM-ON-SILICA CATALYSTS AND METHODS OF MAKING THE SAME

Title (de)

CHROM-AUF-SILIZIUMDIOXID-KATALYSATOREN UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

CATALYSEURS À BASE DE CHROME-SUR-SILICE ET LEURS PROCÉDÉS DE FABRICATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2021173148A1] A composition, such as a catalyst precursor or a catalyst comprising a Cr coated silica support with particularly defined levels of Na and Al, such that the resulting Cr/Silica catalyst has an increased MI potential is disclosed. In an embodiment, the disclosed catalyst composition comprises a silica-containing substrate made using a base-set gel and comprising a catalytically active metal consisting of Cr, with Al impurities of less than 50 ppm and Na in an amount of less than 800 ppm of the catalyst composition. The disclosed composition has an increased MI potential over a catalyst having higher Al content, a lower Na:Al ratio, or both. Methods of making the disclosed composition, and methods of using it to prepare a polyethylene are also disclosed.

IPC 8 full level

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